

APPENDIX F: NORTH CAROLINA FAF2, SHORT-HAUL, AND TOTAL TRIP GENERATIONS

FAF2 is a synthesized nationwide database and it ignores some short haul truck trips; hence, we developed a method to incorporate these ‘missing’ short haul trips. The ‘missing’ trip productions and attractions are obtained using North Carolina employment data and adjusted quick response trip generation rates. Conceptually the manipulation is shown below and illustrated in Figure F.1.

$\text{FAF2 Trips}_{\text{NC}} = \text{Long Haul (internal + external + I-E) Trips}_{\text{NC}}$

$\text{Short-haul Trip}_{\text{NC}} = \text{NC Employment} * \text{quick response trip rate (internal + I-E)}$

Thus, $\text{Total Trips}_{\text{NC}} = \text{FAF2 Trips}_{\text{NC}} + \text{Short-haul Trips}_{\text{NC}}$

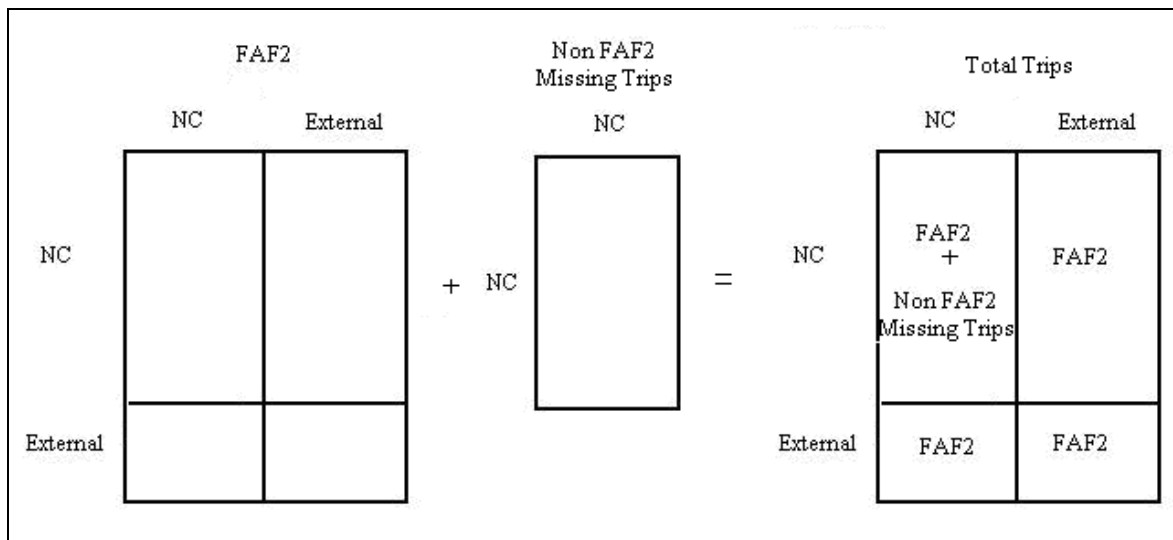


Figure F.1: Illustration of the Concept Involved in Estimating ‘Missing’ trips